

Redefining Frequency Synthesizers

With QuickSyn Technology



Frequency Coverage **76 to 82 GHz**

Fast Switching **100 μ s**

Instrument-Grade Spectral Purity

(10 kHz phase noise: -98 dBc / Hz @ 82 GHz)
(100 kHz phase noise: -101 dBc / Hz @ 82 GHz)

+10 dBm Output Power

Frequency Sweep & List Mode

USB & SPI Control Interfaces

Compact Size **4 x 4 x 1.8 inches**

Models

PRELIMINARY

ni-microwavecomponents.com

SPECIFICATIONS

ORDER INFORMATION

Description	Specification
Model No.	Preliminary
Description	76 to 82 GHz mm-Wave Source

FREQUENCY

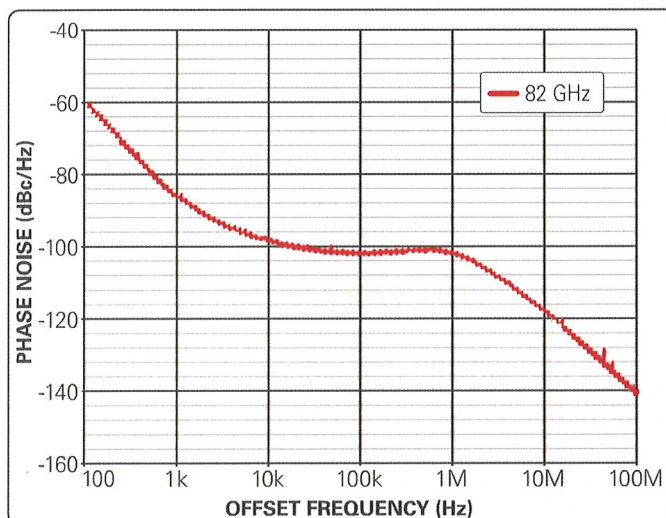
Description	Specification
Range	76 to 82 GHz
Resolution	1 Hz

POWER

Description	Specification
Output (fixed)	+10 dBm Typ.

SPECTRAL PURITY

Description	Specification
Output Return Loss	10 dB
Harmonics	-40 dBc Typ.
Spurious	-60 dBc Typ.
Phase Noise (dBc / Hz) at 82 GHz Typ.	
1 kHz	-86 dBc
10 kHz	-98 dBc
100 kHz	-101 dBc
1 MHz	-101 dBc
10 MHz	-115 dBc
Floor	-135 dBc



REFERENCE

Description	Specification
Internal	
Output Frequency	10 MHz Nom.
Output Power	+5 dBm $\pm$ 2 dB
Ref. Mute	-60 dBm Max.
Frequency Stability	$\pm$ 1 ppm
Aging	$\pm$ 1 ppm / year
Locking Range	$\pm$ 5 ppm
Output Impedance	50 ohms
External	
Input Frequency	10 MHz
Input Power	+5 dBm $\pm$ 10 dB
Absolute Max. Input Level	+15 dBm
Input Impedance	50 ohms

ELECTRICAL

Description	Specification
Supply Voltage	+12 V $\pm$ 5%
Absolute Max. Supply Voltage	+15 V
Supply Current	1250 mA

ENVIRONMENTAL

Description	Specification
Operating Temp. Range	0° to +50° C

MECHANICAL

Description	Specification
Size	4 x 4 x 1.8 in.
RF Out Connector	WR12
REF IN & OUT Connectors	SMA type
DC Connectors	SPI Harness